

Title: METHOD AND  
 APPARATUS FOR ENCODING  
 MOVING PICTURE  
 Inventor(s): Keiichi CHONO  
 DOCKET NO.: 040373-0370

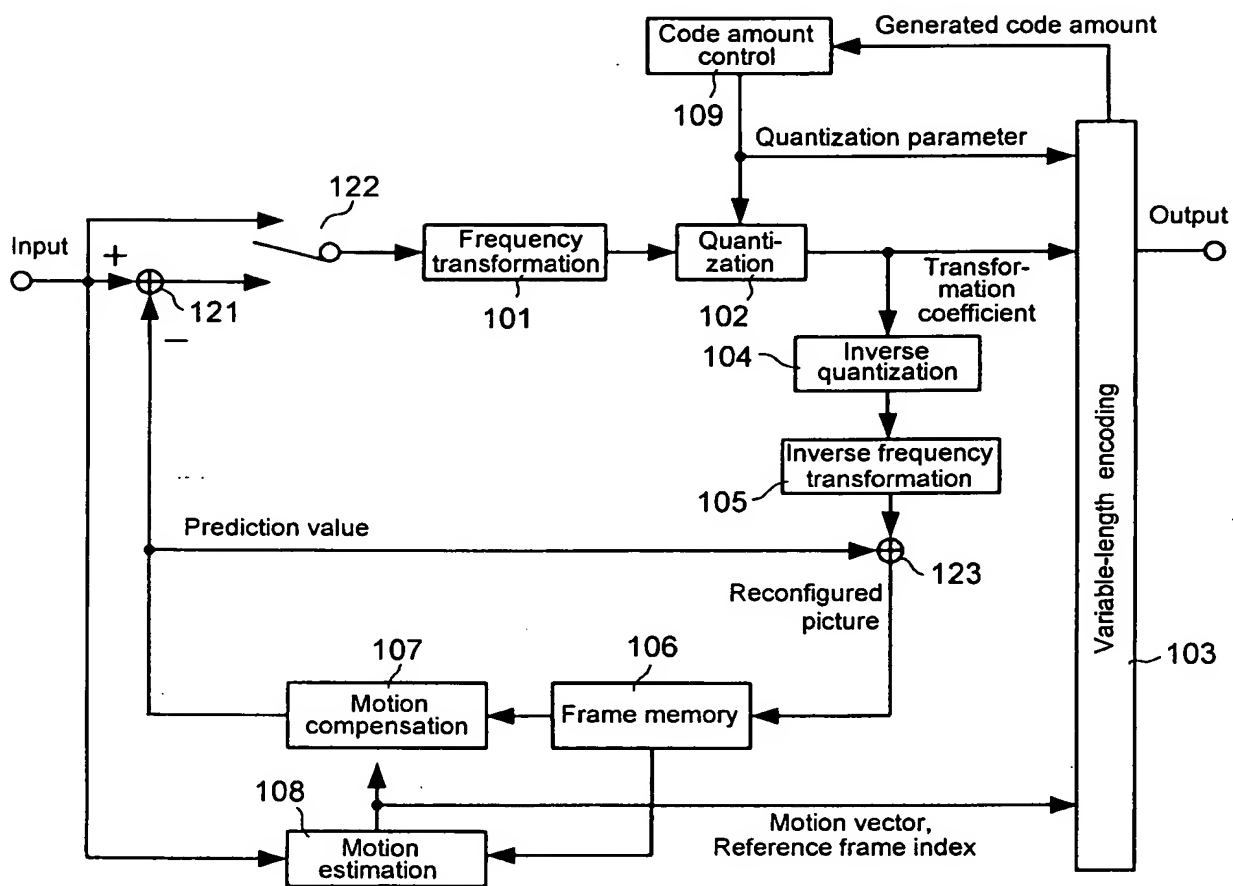


FIG. 1

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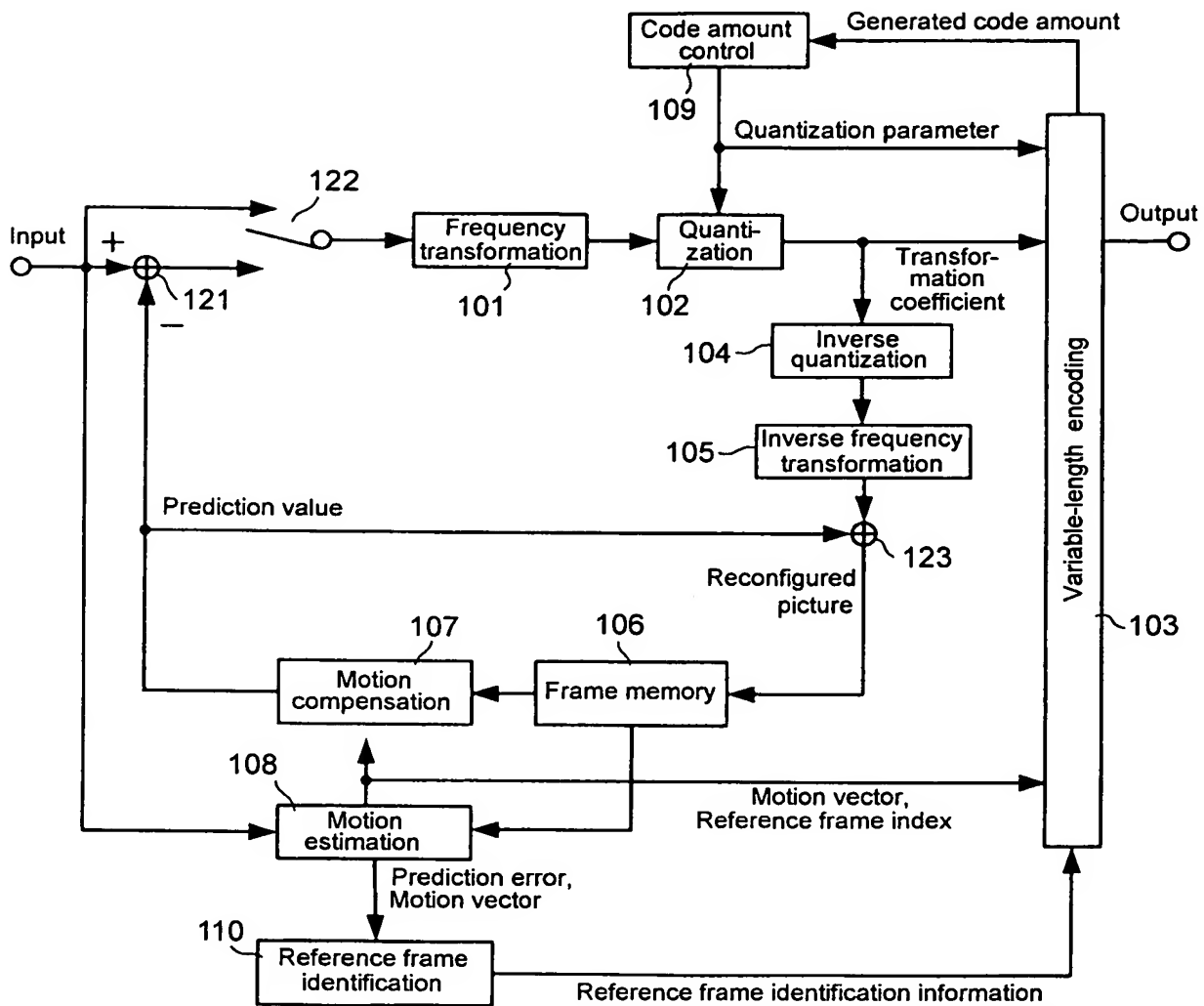
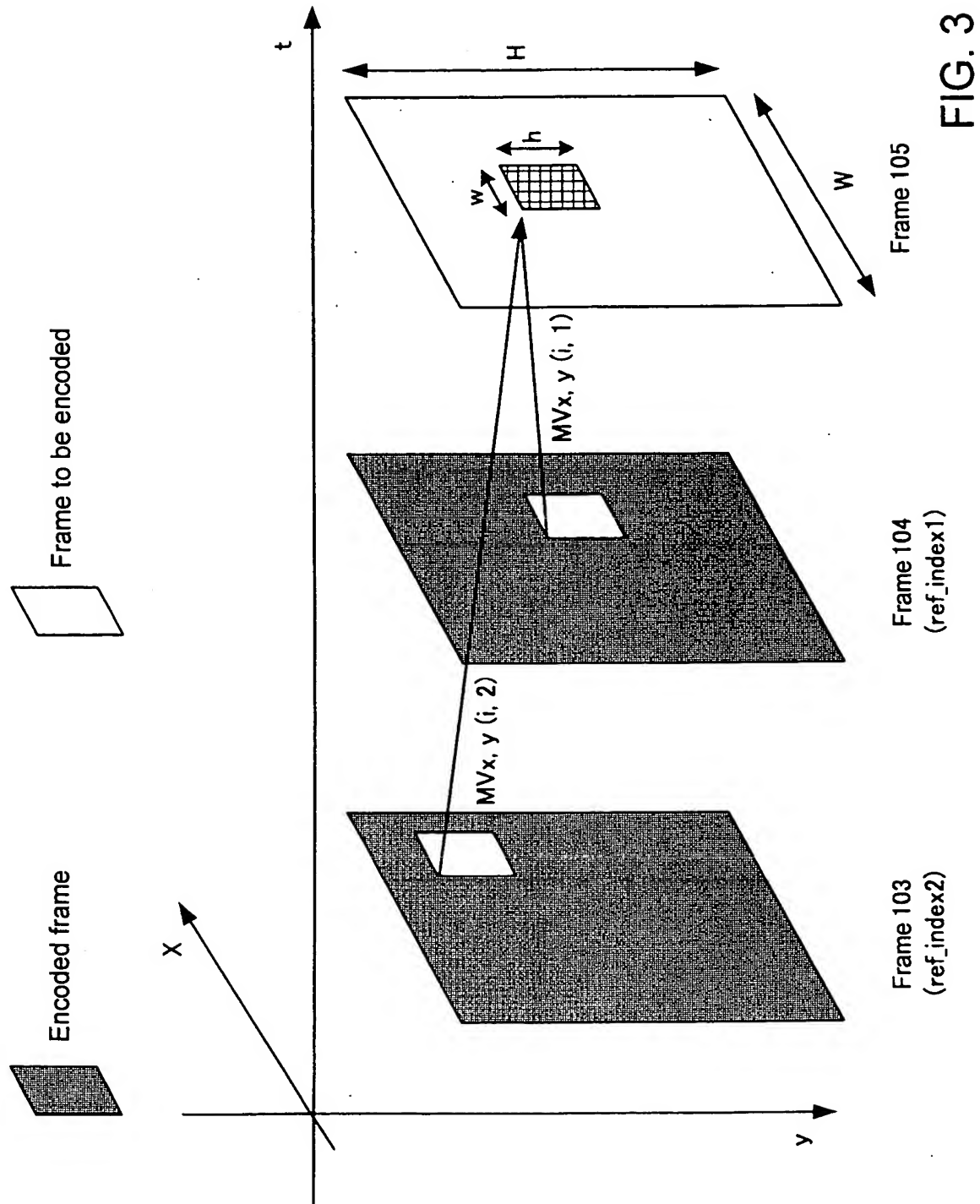


FIG. 2



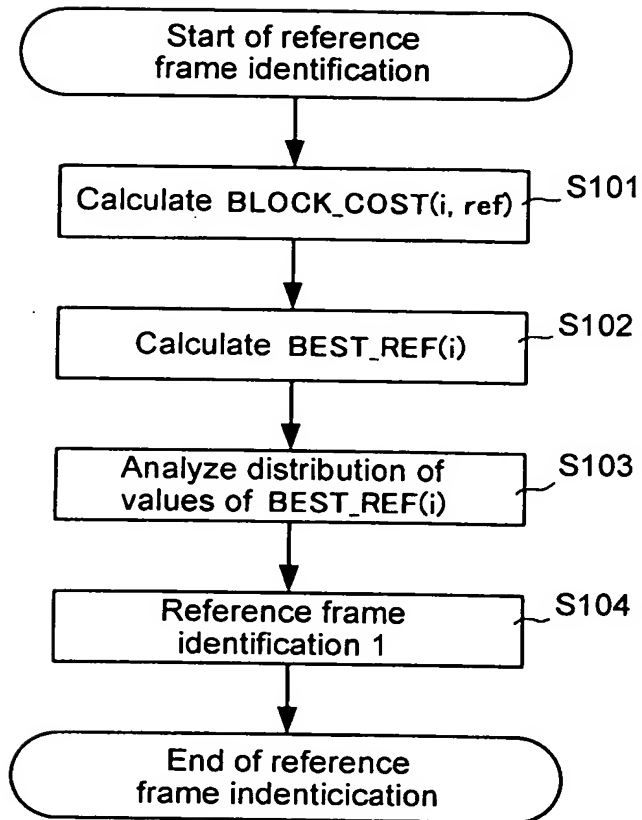


FIG. 4

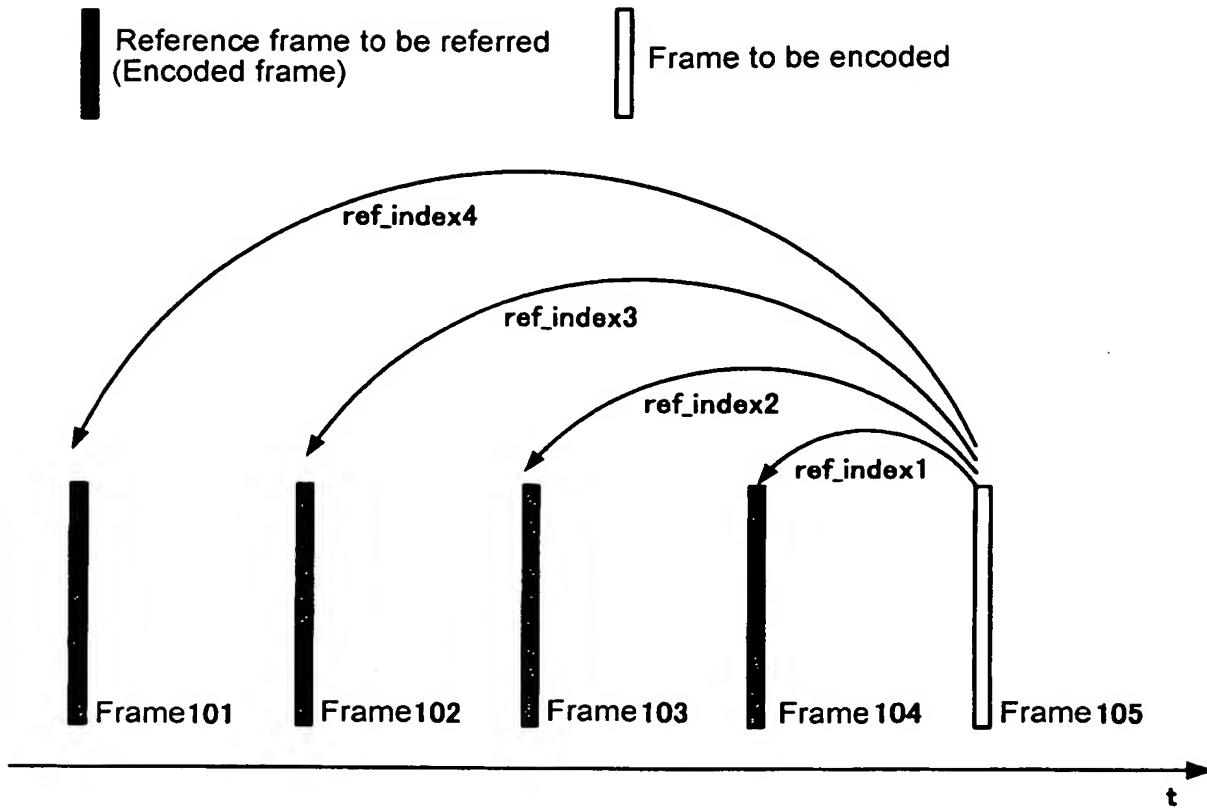


FIG. 5

frame_num(r)	ref_index	m_ref_index		
		Example 1	Example 2	Example 3
104	1	1	3	1
103	2	2	4	2 (NUM(2)=0)
102	3	3	1	3 (NUM(3)=0)
101	4	4	2	4 (NUM(4)=0)

FIG. 6

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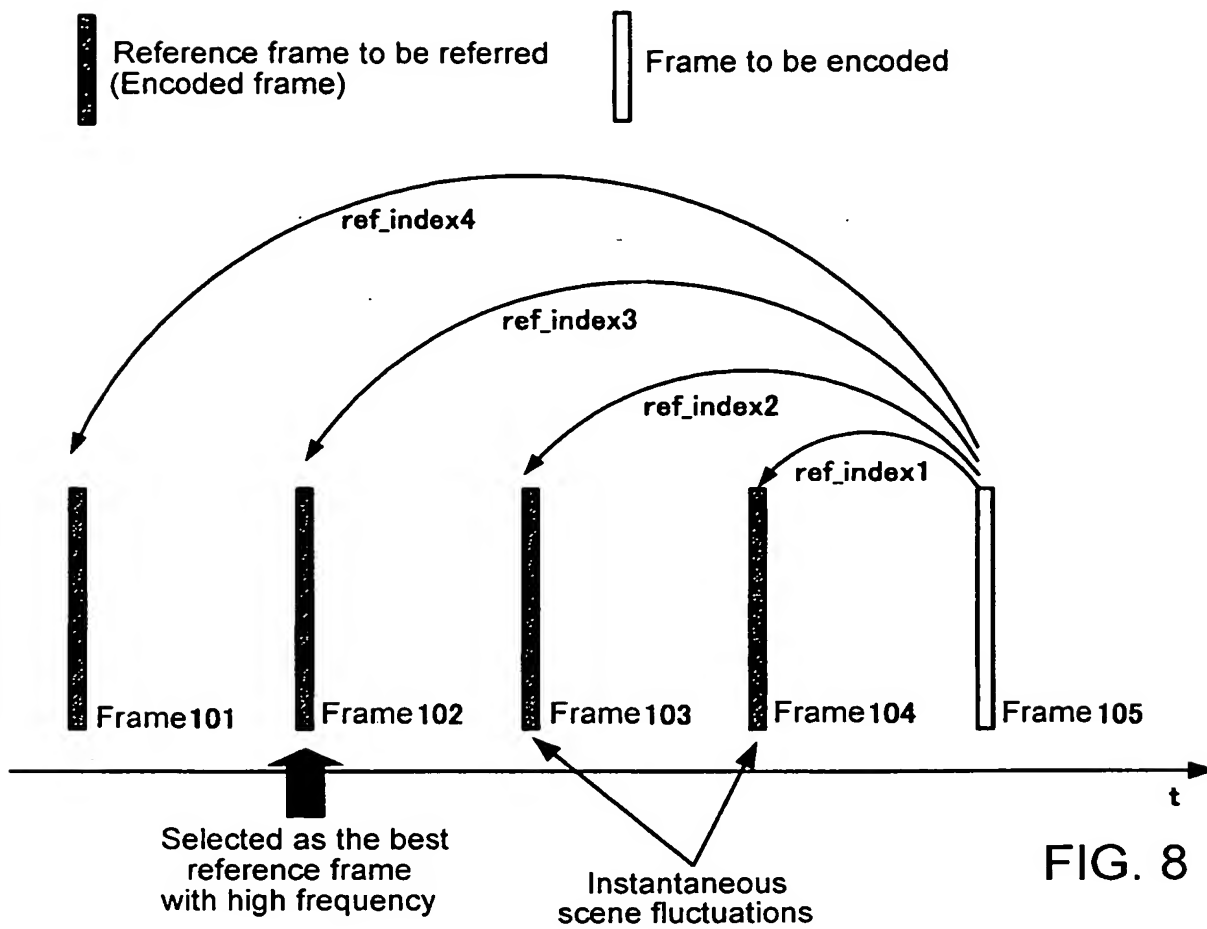
frame_num	ref_index	Variable-length code
104	1	0
103	2	10
102	3	110
101	4	1110

FIG. 7A

frame_num	ref_index	Variable-length code
104	3	110
103	4	1110
102	1	0
101	2	10

FIG. 7B

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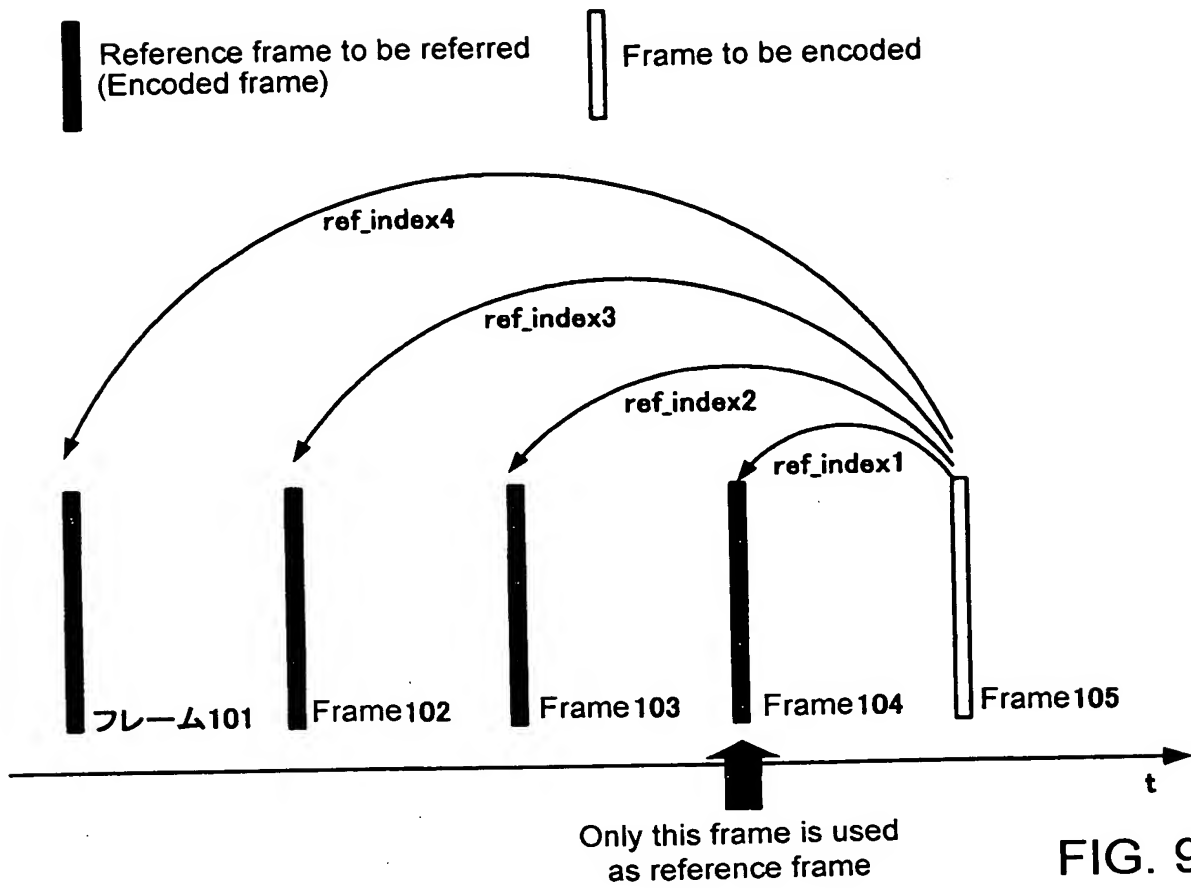


FIG. 9

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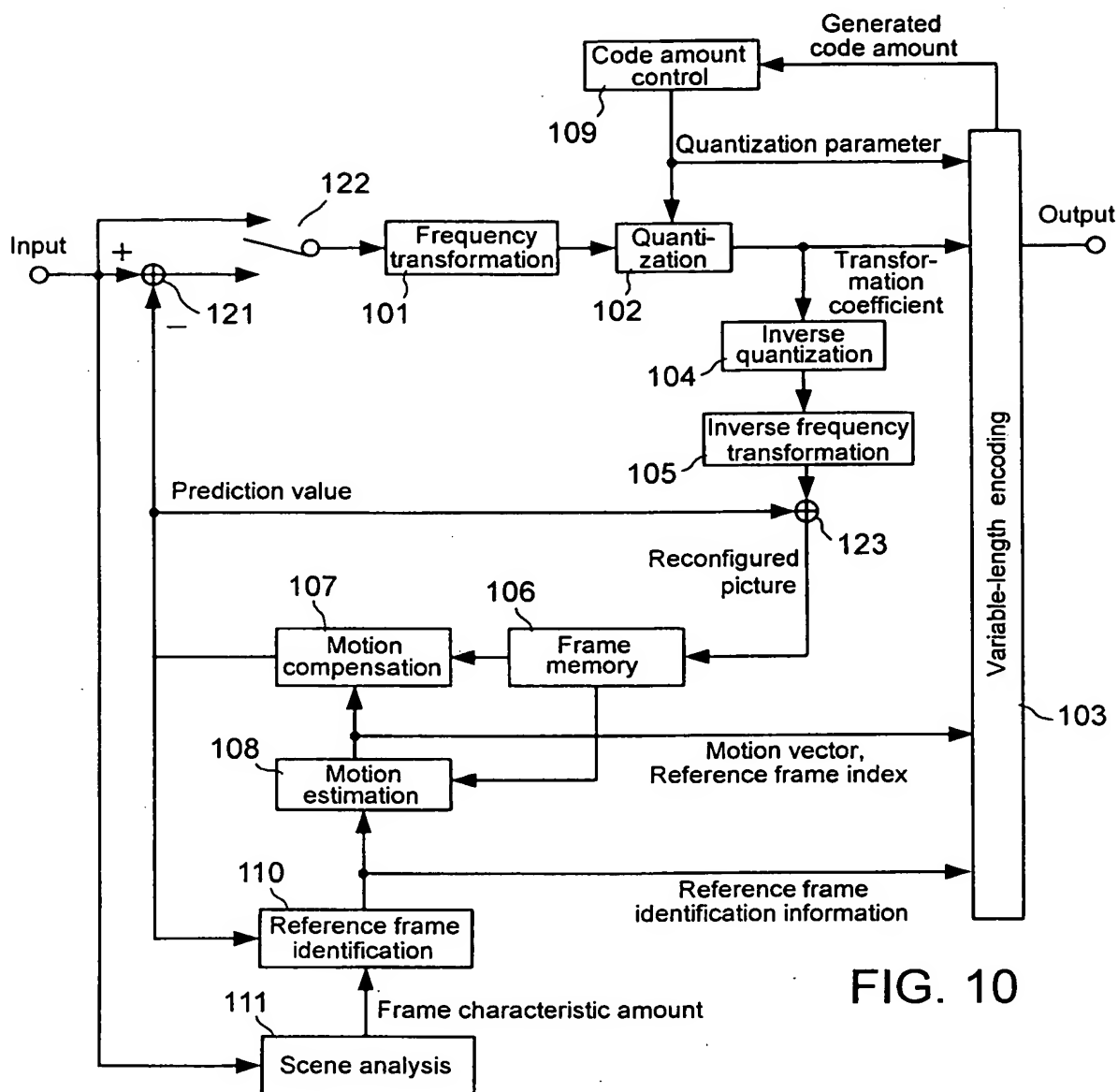


FIG. 10

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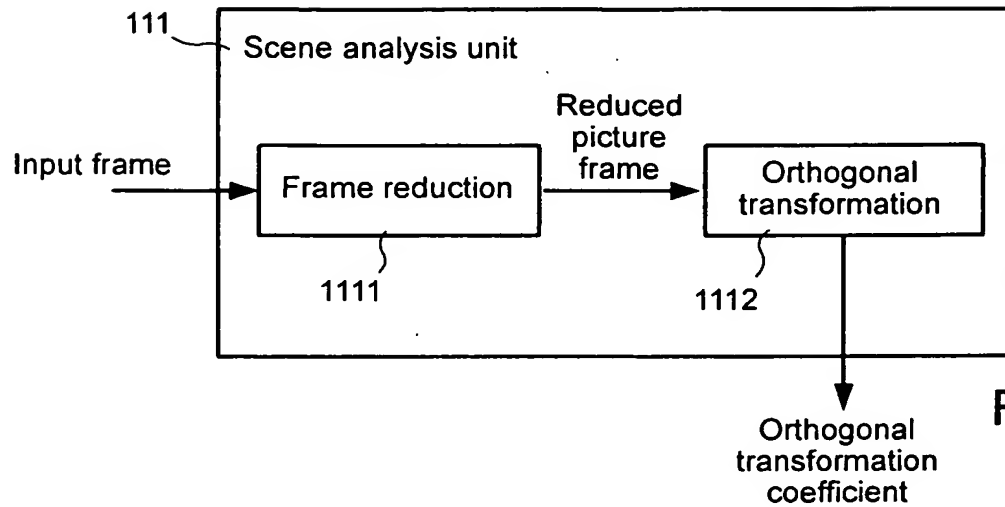


FIG. 11

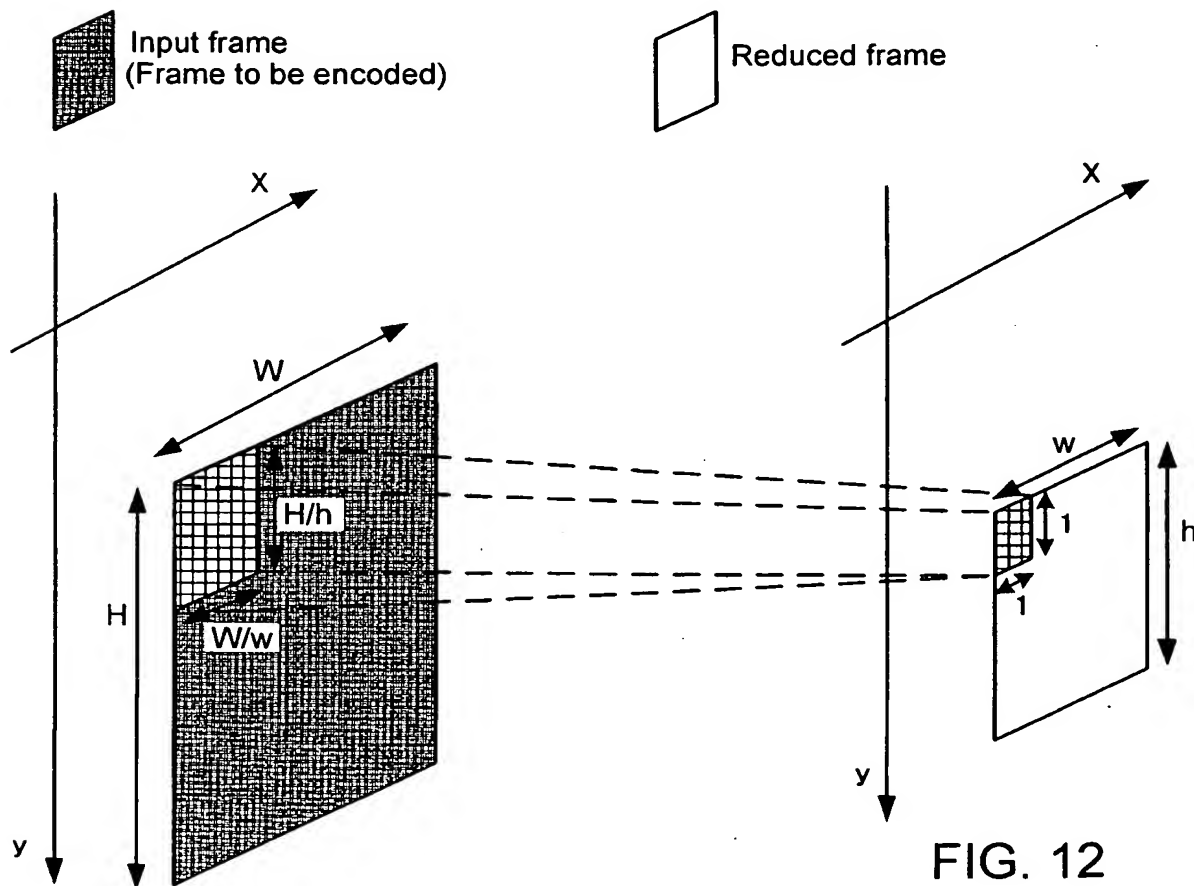


FIG. 12

$$[H_2] = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix}$$

$$[H_4] = \frac{1}{\sqrt{2}} \begin{bmatrix} H_2 & H_2 \\ H_2 & -H_2 \end{bmatrix}$$

$$[H_8] = \frac{1}{\sqrt{2}} \begin{bmatrix} H_4 & H_4 \\ H_4 & -H_4 \end{bmatrix}$$

⋮

$$[H_{2^n}] = \frac{1}{\sqrt{2}} \begin{bmatrix} H_{2^{n-1}} & H_{2^{n-1}} \\ H_{2^{n-1}} & -H_{2^{n-1}} \end{bmatrix}$$

FIG. 13

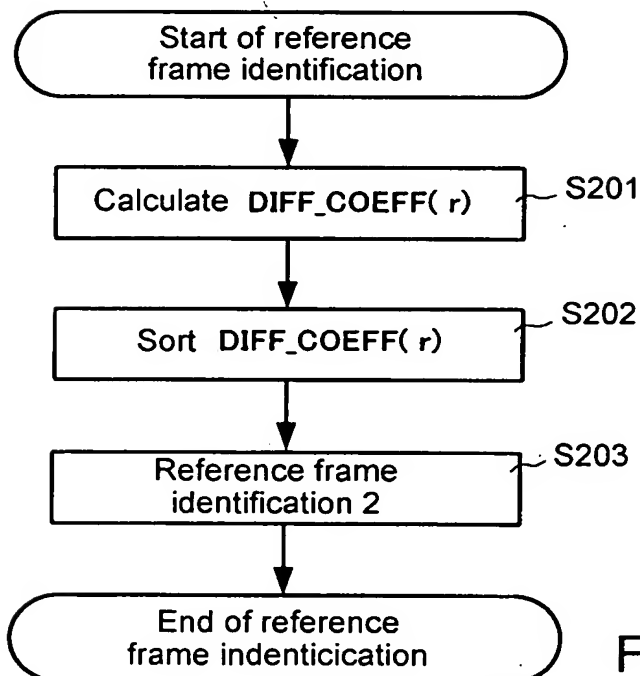


FIG. 14

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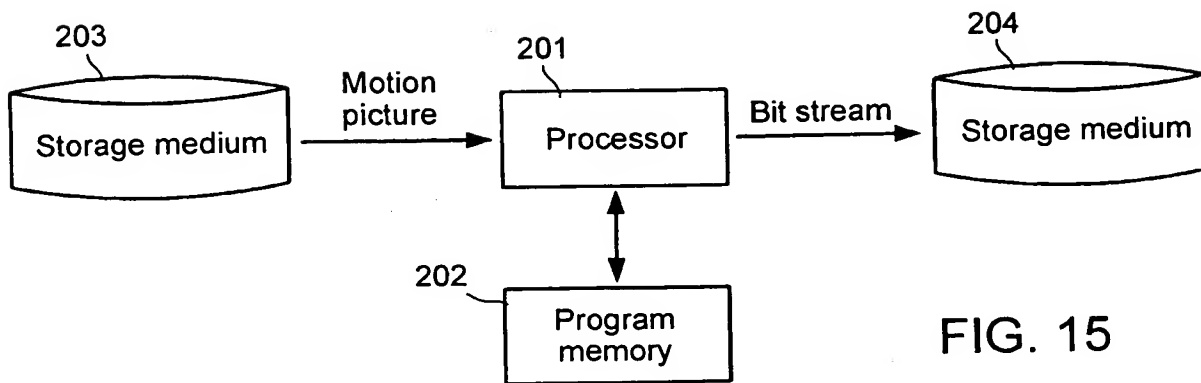


FIG. 15